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Published Papers

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A1 Experiments on Energy Balance and Thermal Efficiency of Pulse Detonation Turbine Engine	Tomoaki Takahashi Akihiko Mitsunobu Yudai Ogawa Shin-ichi Kato Hiroyuki Yokoyama Akio Susa Takuma Endo	Science and Technology of Energetic Materials, 73 , 6 (2012) pp. 181-187
A2 Experiments on Energy Balance in Pulse Detonation Turbine Engine	Takuma Endo Akihiko Mitsunobu Tomoaki Takahashi Yudai Ogawa Akio Susa	Asian Joint Conference on Propulsion and Power 2012, CD-ROM (2012) pp. AJCPP2012-076
A3 Compact High-Frequency Pulse Detonation Combustor for Thermal Spraying	Takuma Endo Kyohei Kanekiyo Yoshiki Hanta Takamasa Morikawa Ryota Obayashi	2012 International Workshop on Detonation for Propulsion, USB Memory (2012) pp. 4Tue-am-5
A4 Effects of long rarefied plasma on fast electron generation for FIREX-I targets	Hitoshi Sakagami Atsushi Sunahara Tomoyuki Johzaki Hideo Nagatomo	Laser and Particle Beams, 30 , 1 (2012) pp. 103-109
A5 Generation of pre-formed plasma and its reduction for fast-ignition	Atsushi Sunahara Tomoyuki Johzaki Hideo Nagatomo Kunioki Mima	Laser and Particle Beams, 30 , 1 (2012) pp. 95-102
A6 Collisional effects on fast electron generation and transport in fast ignition	Hitoshi Sakagami Kazuto Okada Yoshitaka Kaseda Toshihiko Taguchi Tomoyuki Johzaki	Laser and Particle Beams, 30 , 2 (2012) pp. 189-197
A7 X-ray backlight measurement of pre-formed plasma by kJ-class petawatt LFEX laser	Shinji Ohira Shinsuke Fujioka Atsushi Sunahara Tomoyuki Johzaki Hideo Nagatomo Satoshi Matsuo Noboru Morio Junji Kawanaka Yoshiki Nakata Noriaki Miyanaga Hiroyuki Shiraga Hiroaki Nishimura Hiroshi Azechi	Journal of Applied Physics, 112 , 6 (2012) pp. 063301-1-063301-6

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A8 High-energy-density plasmas generation on GEKKO-LFEX laser facility for fast-ignition laser fusion studies and laboratory astrophysics	Shinsuke Fujioka Zhe Zhang Norimasa Yamamoto Shinji Ohira Yuuta Fujii Kazuhiro Ishihara Tomoyuki Johzaki Atushi Sunahara Yasunobu Arikawa Keisuke Shigemori Youichirou Hironaka Youichi Sakawa Yoshiki Nakata Junji Kawanaka Hideo Nagatomo Hiroyuki Shiraga Noriaki Miyanaga Takayoshi Norimatsu Hiroaki Nishimura Hiroshi Azechi	Plasma Physics and Controlled Fusion, 54 , 12 (2012) pp. 124042-1-124042-8

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A9 Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers	Hiroyuki Shiraga Shinsuke Fujioka Mitsuo Nakai Takeshi Watari Hirotaka Nakamura Yasunobu Arikawa Hirokazu Hosoda Takahiro Nagai Mayuko Koga Hirofumi Kikuchi Yoshinori Ishii Takehiro Sogo Keisuke Shigemori Hiroaki Nishimura Zhe Zhang Minoru Tanabe Shinji Ohira Yuuta Fujii Takuya Namimoto Youichi Sakawa Osamu Maegawa Tetsuo Ozaki Kazuo A. Tanaka Hideaki Habara Tomoyuki Iwawaki Kazuhiro Shimada Hideo Nagatomo Tomoyuki Johzaki Atsushi Sunahara Masakatsu Murakami Hitoshi Sakagami Toshihiko Taguchi Takayoshi Norimatsu Hirofumi Homma Yasushi Fujimoto Akifumi Iwamoto Noriaki Miyanaga Junji Kawanaka Takahisa Jitsuno Yoshiki Nakata Kouji Tsubakimoto Keiichi Sueda Noboru Morio Satoshi Matsuo Tetsuji Kawasaki Kiyonobu Sawai Kazuki Tsuji Hironaru Murakami Tadashi Kanabe Kiminori Kondo Ryosuke Kodama Nobuhiko Sarukura Toshihiko Shimizu Kunioki Mima Hiroshi Azechi	High Energy Density Physics, 8 , 3 (2012) pp. 227-230
A10 Effects of Radial Inertia and End Friction in Specimen Geometry in Split Hopkinson Pressure Bar Tests: A Computational Study	Takeshi IWAMOTO Takashi Yokoyama	Mechanics of Materials, 51 (2012) pp. 97-109
A11 An experimental study on measurement in electrical resistivity and temperature of TRIP steel during compressive deformation	Takeshi IWAMOTO Shiro Yamanaka Alexis Rusinek	Proc. Plasticity 2012, (2012)
A12 A study on rate sensitivity of elastoplastic fracture toughness of TRIP steel evaluated by a small punch test	Takeshi IWAMOTO Shin-ya Hashimoto Leishi Shi	Proc. DYMAT2012, EPJ Web of Conferences, 26 (2012) pp. 01004-p1-01004-p5
A13 Nonlinear liquid sloshing in a square tank subjected to obliquely horizontal excitation	Takashi Ikeda Raouf A. Ibrahim Yuji Harata Tasuku Kuriyama	Journal of Fluid Mechanics, 700 (2012) pp. 304-328

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A14 Nonlinear responses of liquid surfaces in square tanks subjected to horizontal, random excitation	Takashi Ikeda Yuji Harata Raouf A. Ibrahim	Proceedings of the International Conference on Structural Nonlinear Dynamics and Diagnostics (IC-SNDD2012), (2012)
A15 Vibration control of 2DOF structures utilizing sloshing in square tanks	Takashi Ikeda Yuji Harata Shota Ninomiya	Proceedings of the ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2012), (2012)
A16 Unstable vibrations of a wind turbine tower with two blades	Takashi Ikeda Yuji Harata Yukio Ishida	Proceedings of the ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2012), (2012)
A17 Suppression of period-doubling bifurcation in passive dynamic walking with delayed feedback control	Yuji Harata Koji Iwano Fumihiko Asano Takashi Ikeda	Proceedings of the ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2012), (2012)
A18 Asymmetric gait for rimless wheel with Knee Joints	Yuji Harata Fumihiko Asano Takashi Ikeda	Proceedings of the 2012 IEEE Multi-Conference on Systems and Control, (2012)
A19 Asymptotically stable and deadbeat gait generation of four-linked bipedal walker by adjustment control of heel strike posture	Yuji Harata Fumihiko Asano	Proceedings of 2012 IEEE-RAS International Conference on Humanoid Robots, (2012)
A20 Efficient parametric excitation walking with delayed feedback control	Yuji Harata Fumihiko Asano Kouichi Taji Yoji Uno	Nonlinear Dynamics, 67 , 2 (2012) pp. 1327-1335
A21 Improvement Noise Insulation Performance of Polycarbonate Pane using Sandwich Structure	Min Shen Kazuteru Nagamura Noritoshi Nakagawa Masaharu Okamura	Journal of System Design and Dynamic, 6 , 1 (2012) pp. 61-72
A22 Analysis of the Dynamic Characteristics of Elliptical Gears	Xing Liu Kazuteru Nagamura Kiyotaka Ikejo	Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME), 6 , 4 (2012) pp. 484-497
A23 Vibration and Noise Characteristics of Elliptical Gears due to Non-Uniform Rotation	Xing Liu Kazuteru Nagamura Kiyotaka Ikejo	Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME), 6 , 4 (2012) pp. 498-512
A24 Simulation on the vibration characteristics of elliptical gears	Xing Liu Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0954406212454372 (2012)
A25 Vibration and Mesh Behavior of Elliptical Gears by Non-Uniform Rotation	Satoshi Yoshinaga Kazuteru Nagamura Kiyotaka Ikejo Xing Liu	Proceedings of The 2nd IFToMM Asian Conference on Mechanism and Machine Science, November 7-10, 2012, Tokyo, Japan, (2012)
A26 Vibration and Noise Reduction of Composite Structure Gear	Takashi Nishiawatoko Kazuteru Nagamura Kiyotaka Ikejo Daisuke Teramoto	Proceedings of The 2nd IFToMM Asian Conference on Mechanism and Machine Science, November 7-10, 2012, Tokyo, Japan, (2012)
A27 Damage Diagnosis of a Gear Using Statistical Parameter	Akimasa Yamamoto Kiyotaka Ikejo Kazuteru Nagamura Qingrong Fan Masato Kawada	Proceedings of The 2nd IFToMM Asian Conference on Mechanism and Machine Science, November 7-10, 2012, Tokyo, Japan, (2012)

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A29 Job Shop Scheduling to Meet Due Dates with Consideration to Sequence Dependent Setup Times in a Dynamic Environment	Toru Eguchi Katsutoshi Nishi Hiroaki Kawai Takeshi Murayama	Proceedings of the ASME 2012 International Symposium on Flexible Automation, (2012)
A30 Numerical investigations of slip effects on rarefied gas flows by first	Youichi Ogata Koudai Matsumoto	Journal of Fluid Science and Technology, 7 , 3 (2012) pp. 374-388
A31 Accelerated motions of a fish-like foil from impulsive starts to terminal	Youichi Ogata Tsuyoshi Ogasawara	Journal of Fluid Science and Technology, 7 , 3 (2012) pp. 358-373
A32 Fuel Spray Evaporation and Mixture Formation Processes of Ethanol/Gasoline Blend Injected by Hole-Type Nozzle for DISI Engine	Masaharu Chato Suguru Fukuda Kiyotaka Sato Tatsuya Fujikawa Run Chen Zezheng Li Jiangping Tian Keiya Nishida	SAE International Journal of Engines, 5 , 4 (2012) pp. 1836-1846
A33 Development of Combustion Chamber Shape to Reduce NOx and CO2 Emissions by Enhancing In-Cylinder Gas Mixing in a Diesel Engine (Validation of Egg-Shape Combustion Chamber Concept)	Sang-Kyu Kim Daisuke Shimo Motoshi Kataoka Keiya Nishida	Proceedings of the Eighth International Conference on Modeling and Diagnostics for Advanced Engine Systems (COMODIA 2012), CI2-4 (2012) pp. 218-225
A34 Evaporation and Mixture Formation Processes of Ethanol/Gasoline Blended Fuel Spray Injected by Hole-Type Injector for D.I. Gasoline Engine	Kiyotaka Sato Masaharu Chato Yoshitaka Wada Tatsuya Fujikawa Kenta Kitamitsu Keiya Nishida Zezheng Li	Proceedings of the Eighth International Conference on Modeling and Diagnostics for Advanced Engine Systems (COMODIA 2012), SI2-4 (2012) pp. 622-627
A35 Spray, Ignition and Combustion Characteristics of Biodiesel and Diesel Fuels Injected by Micro-Hole Nozzle under Ultra-High Injection Pressure	Olawole Abiola Kuti Jingyu Zhu Keiya Nishida Wiangang Wang Zuohua Huang	Proceedings of the Eighth International Conference on Modeling and Diagnostics for Advanced Engine Systems (COMODIA 2012), SP3-1 (2012) pp. 674-679
A36 PIV Study on Flow Fields of Spray and Surrounding Gas under Non-Evaporating and Evaporating Conditions	Jingyu Zhu Keiya Nishida Olawole Abiola Kuti	USB Proceedings of the 12th International Conference on Liquid Atomization and Spray Systems (ICLASS 2012), (2012) pp. 1-8
A37 Effects of Ultra-High Injection Pressure, Micro-Hole Nozzle and Fuel Properties on Spray and Combustion Processes of Biodiesel Fuel	Olawole Abiola Kuti Jingyu Zhu Keiya Nishida Wiangang Wang Zuohua Huang	USB Proceedings of THIESEL 2012 Conference on Thermo- and Fluid Dynamic Processes in Direct Engines, (2012) pp. 1-19
A38 Fuel Spray Evaporation and Mixture Formation Processes of Ethanol/Gasoline Blend Injected by Hole-Type Nozzle for DISI Engine	Masaharu Chato Suguru Fukuda Kiyotaka Sato Tatsuya Fujikawa Run Chen Zezheng Li Jiangping Tian Keiya Nishida	CD-ROM Proceedings of 2012 Small Engine Technology Conference, SAE 2012-32-0018 / JSAE 20129018 (2012) pp. 1-14

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A40 Cluster Analysis of Collective Behavior for a Robotic Swarm	Kazuhiro Ohkura Toshiyuki Yasuda Chikara Morishita Yoshiyuki Matsumura	Proceedings of the 12th International Conference on Intelligent Autonomous Systems, (2012)
A41 Network Analyses in the Textile-related Trade from the Perspective of Dying and Finishing Industries	Yoshiyuki Matsumura Fang-Fang Xia Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of Textile Bioengineering and Informatics Symposium 2012, (2012) pp. 728-732
A42 Robust Reinforcement Learning Technique with Bigeminal Representation of Continuous State Space for Multi-Robot Systems	Toshiyuki Yasuda Koki Kage Kazuhiro Ohkura	Proceedings of the SICE Annual Conference 2012, (2012) pp. 1552-1557
A43 Extracting Functional Subgroups from an Evolutionary Robotic Swarm by Identifying the Community Structure	Kazuhiro Ohkura Toshiyuki Yasuda Yoshiyuki Matsumura	Proceedings of the 2012 Fourth World Congress on Nature and Biologically Inspired Computing (NaBIC), (2012) pp. 112-117
A44 Cooperative Transport by a Swarm Robotic System Based on CMA-NeuroES Approach	Tian Yu Tsuguo Fujita Toshiyuki Yasuda Kazuhiro Ohkura Yoshiyuki Matsumura Masanori Goka	Proceeding of the 16th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2012) pp. 1-7
A45 Validation of Robustness of Reinforcement Learning Robots Cooperating with a Human	Soichiro Nomura Toshiyuki Yasuda Kazuhiro Ohkura	Proceeding of the 16th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2012) pp. 158-163
A46 An Incremental Approach to an Evolutionary Robotic Swarm	Takaaki Kadota Toshiyuki Yasuda Yoshiyuki Matsumura Kazuhiro Ohkura	Proceedings of 2012 IEEE/SICE International Symposium on System Integration, (2012) pp. 458-463
A47 Bounded stabilization of a class of stochastic port-Hamiltonian systems	Satoshi Satoh Masami Saeki	Proceedings of Mathematical Theory of Networks and Systems, (2012)
A48 Model predictive tracking control for a linear system under time-varying input constraints	Nobutaka Wada Hiroyuki Tomosugi Masami Saeki	International Journal of Robust and Nonlinear Control, (2012)
A49 Reconfigurable Fault-tolerant Control of a Vehicle with a Steer-by-wire System	Nobutaka Wada Kosuke Fujii Masami Saeki	Proceedings of International Conference on Advanced Mechatronics, (2012)
A50 Application of data-driven loop-shaping method to multi-loop control design of benchmark PID 2012	Masami Saeki Kyosuke Ogawa Nobutaka Wada	IFAC Conference on Advances in PID Control, (2012)
A51 Gain characteristics estimation for data-driven control design and extension theorem	Masami Saeki	American Control Conference, (2012) pp. 4028-4033
A52 OBSERVATION OF BELAG FORMATION ON COATED TOOLS BY TEM	Ryoga Shiotsu Hiroshi Usuki Syogo Nakashima Kazuyuki Kubota Masakazu Isaka Takashi Kano Makoto Haritani Yasuo Yaname	Progress of Machining Technology, (2012) pp. 43-46
A53 TOOL EDGE TEMPERATURE IN TAPPING OF STAINLESS STEEL	Ryutaro Tanaka Koji Shimanuki Akira Hosokawa Tatsuaki Furumoto Takashi Ueda	Progress of Machining Technology, (2012) pp. 109-112

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A55 BEHAVIOR OF AIR-PERMEABILITY IN SURFACE FINISHING OF POROUS BUSHING FOR AEROSTATIC BEARINGS	Keiji Yamada Katsuhiko Sekiya Yasuo Yamane	Progress of Machining Technology, (2012) pp. 157-160
A56 RELATIONSHIP BETWEEN DYNAMIC COMPONENTS OF CUTTING FORCE AND ADHESION ON TOOL-CHIP INTERFACE IN MACHINING Ti-6Al-4V ALLOY	Katsuhiko Sekiya Tetsuo Taketa Ryo Tezuka Keiji Yamada Yasuo Yamane	Progress of Machining Technology, (2012) pp. 191-194
A57 Study on Thermal and Strain Behavior in Selective Laser Sintering Process	Mohd Sanusi Abdul Aziz Tatsuaki Furumoto Takashi Ueda Satoshi Abe Akira Hosokawa Ryutaro Tanaka	Key Engineering Materials, 516 (2012) pp. 203-208
A58 Pre-Groove Development for Laser Cleaving of Brittle Materials by Using Micro-Lens	Takanori Ishikawa Takashi Ueda Tatsuaki Furumoto Akira Hosokawa Ryutaro Tanaka	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 6 , 6 (2012) pp. 841-848
A59 Development of tool edge temperature measurement method in wet cutting - Application for CBN and Poly Crystalline Diamond tools-	Hideto Nishimoto Ryutaro Tanaka Akira Hosokawa Takashi Ueda Tatsuaki Furumoto	Journal of Advanced Mechanical Design, Systems, and Manufacturing, 6 , 6 (2012) pp. 916-922
A60 Finishing Performance of Cooling Channel with Face Protuberance inside the Molding Die	Tatsuaki Furumoto Takashi Ueda Toru Amino Daiki Kusunoki Akira Hosokawa Ryutaro Tanaka	Journal of Materials Processing Technology, 212 , 10 (2012) pp. 2154-2160
A61 Thermal Conductivity of Metal Powder and Consolidated Material fabricated via Selective Laser Melting	Mohd Rizal Alkahari Tatsuaki Furumoto Takashi Ueda Akira Hosokawa Ryutaro Tanaka Mohd Sanusi Abdul Aziz	Key Engineering Materials, 523-524 (2012) pp. 244-249
A62 Cutting Performance of Ceramic Tools in Turning of Mild Steel	Ryutaro Tanaka Akira Hosokawa Tatsuaki Furumoto Takashi Ueda	Key Engineering Materials, 523-524 (2012) pp. 493-496
A63 Developing a Plant System Prediction Model for Technology	Yasuo Yamane Katsuhiko Takahashi Kunihiro Hamada Katsumi Morikawa Senator Nur Bahagia Lucia Diawati Andi Cakravastia	Proceedings of the 13th Asia Pacific Industrial Engineering and Management Systems Conference (APIEMS 2012), (2012) pp. 1796-1807

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B2 Material Flow on Dissimilar Friction Stir Spot Welded Joints of Mg Alloys	Keiichiro Shigematsu Motomichi Yamamoto Kenji Shinozaki Kota Kadoi	Proc. Visual-JW 2012, (2012) pp. 42-43
B3 Development of WC Hardface Welding Process using Hot-Wire GTA Welding System	Gao Shuai Hirotaka Nakashin Motomich Yamamoto Kenji Shinozaki Kota Kadoi Hiroshi Watanabe Tatsunori Kanazawa	Proc. Visual-JW 2012, (2012) pp. 44-45
B4 In-Situ Temperature Measurement using Monochrome High-speed Image Sensors during Laser Welding	Shotaro Yamashita Akira Fujinaga Motomichi Yamamoto Kenji Shinozaki Kota Kadoi Kenji Mitsui Hiroyuki Usui	Proc. Visual-JW 2012, (2012) pp. 69-70
B5 Development of Heat Source Model for Narrow Gap Hot-wire Laser Welding Method	Rittichai Phaoniam Masayuki Yamamoto Kenji Shinozaki Motomichi Yamamoto Kota Kadoi	Proc. Visual-JW 2012, (2012) pp. 71-72
B6 Development of High Efficient Hot Wire-Laser Welding for Narrow Gap Joint	Rittichai Phaoniam Masayuki Yamamoto Kenji Shinozaki Motomichi Yamamoto Kota Kadoi Akito Nishijima Shoko Tsuchiya	Proc. Visual-JW 2012, (2012) pp. 73-74
B7 Fabrication of vapor grown carbon fiber reinforced aluminum composites by spark sintering	G. Sasaki Z. F. Xu Y. B. Choi K. Sugio K. Matsugi	Materials Science Forum, 706-709 (2012) pp. 699-703
B8 Behaviors and process analyses of spark sintering for powders having a low sinterability	K. Matsugi	Journal of Korean Powder Metallurgy Institute, 19 (2012) pp. 127-133
B9 Development of manufacturing method for porous SiO ₂ using decarburization process	Y. B. Choi M. Imanishi K. Matsugi G. Sasaki	Materials Transactions, 53 , 9 (2012) pp. 1706-1709
B10 Strength anisotropy of NITE-SiC/SiC composite by various failure modes	Y. B. Choi T. Hinoki K. Ozawa Y. Katoh K. Matsugi T. Kelimu	Materials Transactions, 53 , 11 (2012) pp. 2060-2063
B11 Determination and prediction of axial/off-axial mechanical properties of SiC/SiC composites	T. Nozawa K. Ozawa Y.B. Choi A. Kohyama H. Tanigawa	Fusion Engineering and Design, 87 , 5-6 (2012) pp. 803-807

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B12 Development of Al ₃ Ni Intermetallic Compound Reinforced Al Composites By Reactive Melt Infiltration	Y.B.Choi K. Matsugi K. Sugio G. Sasaki	International Union of Materials Research Society - International Conference in Asia - 2012, (2012) pp. TuI2-4
B13 Preparation and Microstructure of TiB ₂ /Al Composite by the spark sintering	K. Ishikawa K. Sugio Y.B. Choi K. Matsugi G. Sasaki	International Union of Materials Research Society - International Conference in Asia - 2012, (2012) pp. TuP424
B14 Evaluation of Thermal and Mechanical Properties of Unidirectional CF/Al Composites as Heat Sink	Moonhee Lee Yongbum Choi Kazuhiro Matsugi Kenjiro Sugio Gen Sasaki	International Union of Materials Research Society - International Conference in Asia - 2012, (2012) pp. WeI3-3
B15 Microstructure of Carbon Materials for Carbon/Aluminum Composites	Okyoung Lee Moonhee Lee Kenjiro Sugio Yongbum Choi Gen Sasaki	International Union of Materials Research Society - International Conference in Asia - 2012, (2012) pp. WeI2-2
B16 Fabrication Conditions of Carbon Fiber Aluminum Composites by Low Pressure Infiltration	G. Sasaki M. H. Lee Y. B. Choi K. Matsugi	Proc. of ECCM15 - 15th European Conf. on Composite Materials, USB (2012)
B17 Optimization of Process Conditions for CF/Aluminum Composites by Low Pressure Infiltration	G. Sasaki M. H. Lee K. Sugio Y. B. Choi K. Matsugi	Proc. Proceedings of the 3rd Asian Symposium on Materials & Processing, ASMP 2012, USB (2012)
B18 Process of Carbon/ Aluminum Composites by Low Pressure Infiltration	G. Sasaki M. H. Lee Y. B. Choi K. Sugio K. Matsugi	Proc. of CJCC-10, Innovation of high performance composites for low-carbon and energy saving, (2012) pp. 348-351
B19 Preparation of Pitch Based Carbon Fiber Reinforced Aluminum Composites by Low-Pressure Infiltration Process and Effect of Reactivity between Carbon and Aluminum on Thermal Conductivity	G. Sasaki M. H. Lee K. Sugio Y. B. Choi K. Matsugi	Proc. of the American Society for Composites: Twenty-Seventh Technical Conf., USB (2012) pp. 181
B20 Microstructure Characterization of Al-Si Casting Alloy with Image Processing	K. Sugio H. Oda J. Tabata N. Fuyama G. Sasaki	International Union of Materials Research Society - International Conference in Asia 2012, (2012)
B21 Surface Nanocrystallization of Low Carbon Steel Worked by Frictional Deformation	Yuji Kato Kenjiro Sugio Hideaki Kuramoto Gen Sasaki	International Union of Materials Research Society - International Conference in Asia 2012, (2012)
B22 Identification of Oxide in Cast Iron by Heating-up Oxygen Analysis	Taishi Murakami Kenjiro Sugio Gen Sasaki Hideaki Kuramoto Takashi Oki Osamu Yanagisawa	International Union of Materials Research Society - International Conference in Asia 2012, (2012)
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B24 Evaluating Spatial Distribution of Si Precipitates in Al-Si Alloy using Transmission Electron Microscope Image	Shingo Manjo Kenjiro Sugio Gen Sasaki	International Union of Materials Research Society - International Conference in Asia 2012, (2012)
B25 Feasibility of Bioenergy Utilization for Sustainable Agriculture: A Case Study on Biomethanation and Ethanol Production in Thailand	Takuyuki Yoshioka Yukihiko Matsumura	J. Jpn. Inst. Energy, 91 , 9 (2012) pp. 923-930

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B26 Drastic enhancement of effective thermal conductivity of a metal hydride packed bed by direct synthesis of single-walled carbon nanotubes	Shuhei Inoue Yushi Iba Yukihiko Matsumura	Int. J. Hydrogen Energy, 37 , 2 (2012) pp. 1836-1841
B27 Catalytic gasification of poultry manure and eucalyptus wood mixture in supercritical water	Tau Len-Kelly Yong Yukihiko Matsumura	Ind. Eng. Chem. Res., 51 , 16 (2012) pp. 5685-5690
B28 In situ mass spectroscopic analysis for chemical vapor deposition synthesis of single-walled carbon nanotubes	Takashi Tomie Shuhei Inoue Yukihiko Matsumura	Chem. Phys. Lett., 533 (2012) pp. 56-59
B29 Effects of fine ash particles and alkali metals on ash deposition characteristics at the initial stage of ash deposition determined in 1.5 MWth pilot plant tests	Miki Shimogori Toshihiko Mine Noriyuki Ohyatsu Noboru Takarayama Yukihiko Matsumura	Fuel, 97 (2012) pp. 233-240
B30 Determination of coal ash emissivity using simplified equation for thermal design of coal-fired boilers	Miki Shimogori Hidehisa Yoshizako Yukihiko Matsumura	Fuel, 95 (2012) pp. 241-246
B31 L-Menthol crystal micronized by rapid expansion of supercritical carbon dioxide	Nara Suankaew Yukihiko Matsumura Isara Saramala Uracha R. Ruktanonchai Apinan Soottitantawat Tawatchai Charinpanitkul	J. Ind. Eng. Chem. (Seoul, Repub. Korea), 18 , 3 (2012) pp. 904-908
B32 In situ mass spectroscopic analysis of alcohol catalytic chemical vapor deposition process for single-walled carbon nanotube	Takashi Tomie Shuhei Inoue Yushi Iba Yukihiko Matsumura	Chem. Phys. Lett., 536 (2012) pp. 104-108
B33 Reaction kinetics of the lignin conversion in supercritical water	Tau Len-Kelly Yong Yukihiko Matsumura	Ind. Eng. Chem. Res., 51 , 16 (2012) pp. 11975-11988
B34 Dehydration of biodiesel fuel using desiccant	Takashi Yanagida Ryo Akune Hiroto Munetsuna Tomoaki Minowa Yukihiko Matsumura	J. Jpn. Petrol. Inst., 55 , 6 (2012) pp. 358-362
B35 Experimental Analysis of Combustion Behaviors of CH ₄ /O ₂ Flames in a Rapidly Mixed Type Tubular Flame Burner	Baolu Shi Daisuke Shimokuri Satoru Ishizuka	Proceedings of Asian Joint Conference on Propulsion and Power, AJCPP2012 (2012)
B36 Effect of cathode length on electrical characteristics of a microhollow cathode discharge in helium	T. Yamasaki S. Namba K. Takiyama H. Nojima	Jpn. J. Appl. Phys., 51 (2012) pp. 066001
B37 Pressure Dependences of Gas Temperature and Electron Density in Microhollow Cathode Discharges in He and He+H ₂ O Gases	T. Yamasaki S. Namba K. Takiyama H. Nojima	Jpn. J. Appl. Phys., 51 (2012) pp. 126101
B38 Spectroscopic observation of He arcjet plasma expanding through a converging and diverging slit nozzle	K. Kozue S. Namba T. Endo K. Takiyama K. Sato N. Tamura	Joint conference in renewable energy and nanotechnology, (2012) pp. 233-237
B39 Characterization of shock cell formed in an arcjet He plasma source	G. Kumagawa K. Kozue S. Fujino S. Namba T. Endo K. Takiyama N. Ezumi K. Sato N. Tamura	Joint conference in renewable energy and nanotechnology, (2012) pp. 238-242

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B40 Cathode sheath structure of a micro-hollow cathode discharge plasma in argon high gas pressure	D. Fukuhara D. Maki S.Namba K. Kozue K. Takiyama	Joint conference in renewable energy and nanotechnology, (2012) pp. 243-247
B41 Mass spectrometry study of reactive species in a high pressure microhollow cathode discharge	Y. Katada S. Ikeno S. Namba K. Takiyama K. Takenoshita H. Nojima	Joint conference in renewable energy and nanotechnology, (2012) pp. 248-252
B42 Radiation doses among residents living 37 km northwest of the Fukushima Dai-ichi Nuclear Power Plant	Nanao Kamada Osamu Saito Satoru Endo Akirou Kimura Kiyoshi Shizuma	Journal of Environmental Radioactivity, 110 (2012) pp. 84-89
B43 Isotope Ratios of $^{235}\text{U}/^{238}\text{U}$ and $^{137}\text{Cs}/^{235}\text{U}$ in Black Rain Streaks on Plaster Wall Caused by Fallout of the Hiroshima Atomic Bomb	Kiyoshi Shizuma Satoru Endo Yoko Fujikawa	Health Physics, 102 , 2 (2012) pp. 154-160
B44 Radiation exposure and disease questionnaires of early entrants after the Hiroshima bombing.	T. Imanaka S. Endo N. Kawano K. Tanaka	Radiat. Prot. Dos., 149 (2012) pp. 91-96
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C100 3-D Biped Walking Using Double Support Phase and Swing Leg Retraction Based on the Assumption of Point-contact	T. Aoyama K. Sekiyama Z. Lu Y. Hasegawa T. Fukuda	Journal of Robotics and Mechatronics, 24 , 5 (2012) pp. 866-875
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D31 Pseudo-polynomial Time Solvability for The Maximum Legal Firing Sequence Problem of Inhibitor-Arc Petri nets – Weighted Marked Graphs with Inhibitor Arcs –	Satoru Ochiwa Satoshi Taoka Toshimasa Watanabe	The 27th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), (2012)
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D101 Optimization of opportunity-based software rejuvenation policy	H. Okamura T. Dohi	Proceedings of IEEE 4th International Workshop on Software Aging and Rejuvenation (WoSAR-2012), (2012) pp. 4 pages
D102 An efficient MCMC algorithm for continuous PH distributions	R. Watanabe H. Okamura T. Dohi	Proceedings of The 2012 Winter Simulation Conference, (2012) pp. 12 pages
D103 A Hybrid De-Noising Method on LASCA Images of Blood Vessels	Cong Wu Nengyun Feng Koichi Harada Pengcheng Li	Jour. of Signal and Information Processing, 3 , 2 (2012) pp. 92-97
D104 A Decision Tree Induction Based Recommendation Method for E-commerce	Tahmina Rahman Koichi Harada	Proc. Int. Conf. on Applied and Theoretical Information Systems Research, (2012)
D105 An Improved Method for the Transmission of Large Image over Internet	Kamrul H Talukder Koichi Harada	Proc. Int. Conf. on Information and Computer Networks, (2012) pp. 233-238
D106 Multi-view Video Segmentation based on Bayesian Estimation and Graph Cut	Anh T Tran Koichi Harada	ICGST Int. Jour. on Graphics, Vision and Image Processing, 12 , 1 (2012) pp. 9-14
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D109 Nash Strategy for Multiparameter Singularly Perturbed Markov Jump Stochastic Systems	Hiroaki Mukaidani Toru Yamamoto	IET Control Theory & Applications, 6 , 14 (2012) pp. 2337-2345
D110 The Linear Quadratic Regulator Problem for a Class of Controlled Systems Modeled by Singularly Perturbed Ito Differential Equations	Vasile Dragan Hiroaki Mukaidani Peng Shi	SIAM J. Control and Optimization, 50 , 1 (2012) pp. 448-470
D111 Static Output Feedback H ₂ /H _∞ Control of Infinite Horizon Markov Jump Linear Stochastic Systems with Multiple Decision Makers	Hiroaki Mukaidani Hua Xu Toru Yamamoto Vasile Dragan	IEEE Conference on Decision and Control, (2012) pp. 6003-6008
D112 Decentralized H ₂ Control for Multi-channel Stochastic Systems via State Feedback Strategies: Application to Multimodeling Systems	Hiroaki Mukaidani Hideyuki Tanaka Toru Yamamoto	American Control Conference, (2012) pp. 50-55
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D114 Large time asymptotic problems for optimal stochastic control with superlinear cost	Naoyuki Ichihara	Stochastic Processes and their Applications, 122 , 4 (2012) pp. 1248-1275
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D116 Diagnosis of Osteoporosis on Dental Panoramic Radiographs using Support Vector Machine in Computer-Aided system	M. S. Kavitha A. Asano A. Taguchi T. Kurita M. Sanada	BMC Medical Imaging, 12 , 1 (2012)

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D119 Analysis of the texture characteristics associated with visual complexity perception	Xinoying Guo Chie Muraki Asano Akira Asano Takio Kurita Liang Li	Optical Review, 19, 5 (2012) pp. 306-314
D120 Multi-structural texture analysis using mathematical morphology	Lei Yang Akira Asano Liang Li Chie Muraki Asano Takio Kurita	IEICE Trans. on Fundamentals of Electronics, Communications and Computer Sciences, E95-A, 10 (2012) pp. 1759-1767
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E6 Preparation and characterization of boron oxide based red-emitting phosphors using Eu, Al and Ca additives	T. Ogi Y. Kusakibaru Y. Kaihatsu W.N. Wang M. M. Munir K. Okuyama	Materials Chemistry and Physics, (2012)
E7 Nanostructured design of electrocatalyst support materials for high performance PEM fuel cells applications	R. Balgis G. M. Anilkumar S. Sago T. Ogi K. Okuyama	Journal of Power Sources, 203 (2012) pp. 26-33
E8 Recovery of indium from aqueous solutions by the Gram-negative bacterium <i>Shewanella</i> algae	T. Ogi K. Tamaoki N. Saitoh A. Higashi Y. Konishi	Biochemical Engineering Journal, (2012)
E9 Mesopore-free Hollow Silica Particles with Controllable Diameter and Shell Thickness via An Additive-free Synthesis	A. B. D. Nandiyanto Y. Akane T. Ogi K. Okuyama	Langmuir, 28 , 23 (2012) pp. 8616-8624
E10 Rapid in-situ synthesis of spherical microflower Pt/C catalyst via spray-drying for high performance fuel cell application	R. Balgis G. M. Anilkumar S. Sago T. Ogi K. Okuyama	Fuel Cells, (2012)
E11 Influence of Polymer Decomposition Temperature on the Formation of Rare-earth Free Boron Carbon Oxynitride Phosphors	T. Ogi F. Iskandar A. B. D. Nandiyanto W-N Wang K. Okuyama	Journal of Chemical Engineering of Japan, 45 , 12 (2012) pp. 995-1000
E12 Doughnut Magnesium Fluoride Nanoparticles Prepared by An Electron-beam Irradiation Method	Nandiyanto, A.B.D T. Ogi K. Okuyama	J. Nanoparticle Res, 14 , 10 (2012) pp. 1182

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E14 Control of core-jet geometry during electrospray by an electric current	Suhendi. A M. M. Munir A. B. Suryamas A.B.D. Nandiyanto T. Ogi K. Okuyama	Adv. Powder Technology, (2012)
E15 Synthesis of a Colorless Suspension of TiO ₂ Nanoparticles by Nitrogen Doping and the Bead Mill Dispersion Process	I. M. Joni T. Ogi T. Iwaki K. Okuyama	Industrial & Engineering Chemistry Research, (2012)
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E17 Mesopore-free Silica Shell with Nanometer-scale Thickness-controllable on Cationic Polystyrene Core	Nandiyanto, A.B.D T. Iwaki T. Ogi K. Okuyama	J. Colloid Interf. Sci., 389 , 1 (2012) pp. 134-146
E18 Agglomeration-free core-shell polystyrene/silica particles preparation using an electrospray method and additive-free cationic polystyrene core	Suhendi. A A.B.D. Nandiyanto T. Ogi K. Okuyama	Mater. Lett., 91 (2012) pp. 161-164
E19 Ultrahigh oxygen reduction activity of Pt/nitrogen-doped porous carbon microspheres prepared via spray-drying	R. Balgis G. M. Anilkumar S. Sago T. Ogi K. Okuyama	J power sources, 229 (2012) pp. 58-64
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E24 Crystallization of polycarbonate due to the dissolution of supercritical carbon dioxide	Shigeki Takishima Takayoshi Hashimoto Kota Kitashima Masashi Haruki Shin-ichi Kihara	Proceedings of 6th International Symposium on Molecular Thermodynamics and Molecular Simulation, (2012)
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E27 Study of bubble nucleation in polymer foaming with supercritical CO ₂	Hiroyuki Suganaga Masashi Haruki Shin-ichi Kihara Shigeki Takishima	Proceedings of 6th International Symposium on Molecular Thermodynamics and Molecular Simulation, (2012)
E28 Thermosensitive properties of amphiphilic N,N-dimethylacrylamide gel grafted with thermosensitive oligo(N-isopropylacrylamide)	Atsushi Takahashi Shuji Sakohara	Journal of Applied Polymer Science, 124 (2012) pp. 1208-1216
E29 Synthesis of porous poly[oligo(ethylene glycol) methyl ether methacrylate] gels that exhibit thermosensitivity in highly concentrated aqueous NaCl solution	Takashi Iizawa Dai Yamamoto Takehiko Gotoh Shuji Sakohara	Polymer, 53 (2012) pp. 3417-3420
E30 Compaction of suspended particles with dual ionic thermosensitive polymers incorporating a hydrophobic component	Taichi Kawachi Shuji Sakohara	Proc. 11th World Filtration Congress, (2012) pp. 1-11
E31 Separation technology using stimuli-responsive polymers and gels	Shuji Sakohara	Proc. 19th Regional Symposium on Chemical Engineering, (2012) pp. 1-6
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E35 Pervaporation of acetic acid aqueous solutions by organosilica membranes	T. Tsuru T. Shibata J. Wang H. R. Lee M. Kanezashi T. Yoshioka	Journal of Membrane Science, 421-422 (2012) pp. 25-31
E36 Separation of propylene/propane binary mixtures by bis (triethoxysilyl) methane (BTESM)-derived silica membranes fabricated at different calcination temperatures	M. Kanezashi W. N. Shazwani T. Yoshioka T. Tsuru	Journal of Membrane Science, 415-416 (2012) pp. 478-485
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E38 Gas permeation properties of silica membranes with uniform pore sizes derived from polyhedral oligomeric silsesquioxane	M. Kanezashi T. Shioda T. Gunji T. Tsuru	AIChE Journal, 58 (2012) pp. 1733-1743
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E42 Theoretical calculation of uncertainty region based on the general size distribution in the preparation of standard reference particles for particle size measurement	Hideto Yoshida Tetsuya Yamamoto Kunihiro Fukui Hiroaki Masuda	Advanced Powder Technology, 23 , 2 (2012) pp. 185-190
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E49 Effect of Clean-air Injection through Porous Sintered Metal Cone on Classification Performance of Novel Cyclone	K. Fukui K. Jikihara K. Murashige T. Yamamoto H. Yoshida	5th Asian Particle Technology Symposium APT2012, 1-C (2012) pp. 099
E50 Control of classification performance of novel cyclone with sintered metal by clean-air injection	K. Fukui K. Jikihara T. Yamamoto H. Yoshida	20th International Congress of Chemical and Process Engineering CHISA 2012, P1-35 (2012) pp. 212
E51 Effect of silt and clay on settlement of short-neck clam <i>Ruditapes philippinarum</i> larvae	Satoshi Nakai Ryo Ishii Tetsuji Okuda Wataru Nishijima Mitsumasa Okada	Journal of Water and Environment and Technology, 10 , 1 (2012) pp. 23-30
E52 Effect of pH and Coexisting Species on the Photochemical Decomposition of Perfluorooctanoic Acid by Iron (III) Sulphate	Masaki OHNO Yuta KUBO Esteban R Mino A Tomohiro KOSE Satoshi NAKAI Wataru NISHIJIMA Kuniaki KAWATA	Journal of Water and Environment and Technology, 10 , 2 (2012) pp. 129-140
E53 Polyphenols and fatty acids responsible for anti-cyanobacterial allelopathic effects of submerged macrophyte <i>Myriophyllum spicatum</i>	S. Nakai G. Zou T. Okuda W. Nishijima M. Hosomi M. Okada	Water Science and Technology, 66 , 5 (2012) pp. 993-999
E54 Mechanochemical degradation of γ -hexachlorocyclohexane by a planetary ball mill in the presence of CaO	Yugo NOMURA Kazuo FUJIWARA Akihiko TERADA Satoshi NAKAI Masaaki HOSOMI	Chemosphere, 86 , 3 (2012) pp. 228-234
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E56 Evaluation of steel slag as an alternative material of sand for coastal ecosystem creation	Wataru Nishijima Hitomi Yano Satoshi Asaoka Tetsuji Okuda Satoshi Nakai	The ISWA World Solid Waste Congress, (2012)
E57 Seasonal Variation and Rainfall Effects in Water Quality of Kushiro River in Wetlands Area	Tetsuji Okuda Masaki Ohno Md.Shafiquzzaman Satoshi Nakai Wataru Nishijima	The 9th International Symposium on Water Supply Technology, (2012)
E58 Distribution of benthic fauna decided in association with sediment environments on tidal flat in Hiroshima, Japan	YB Akiyama T. Katayama H. Yano T. Okuda S. Nakai W. Nishijima	International Symposium including Field Workshops -Biodiversity in Changing Coastal Waters of Tropical and Subtropical Asia-, (2012)

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E61 Prevention of cyanobacterial dominance by an allelopathic effect of submerged plant <i>Miriophyllum spicatum</i>	S. Nakai N. Seto T. Okuda W. Nishijima	13th International Conference of wetland systems for wate4r pollution control, (2012)

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F3 High Mobility Organic Thin-Film Transistors on Plastic Substrate,	Iori Doi Myeong Jin Kang Kazuo Takimiya	Current Applied Physics, 12 (2012) pp. e2-e5
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F5 Naphthodithiophene-Based Donor-Acceptor Polymers: Versatile Semiconductors for OFETs and OPVs	Itaru Osaka Toru Abe Masafumi Shimawaki Tomoyuki Koganezawa Kazuo Takimiya	ACS Macro Letters, 1 , 4 (2012) pp. 437-440
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F8 [2,2']Bi[naphtho[2,3-b]furanyl]: a versatile organic semiconductor with a furan-furan junction,	Kazuki Niimi Hiroki Mori Eigo Miyazaki Itaru Osaka Hayato Kakizoe Kazuko Takimiya Chihaya Adachi	Chemical Communications, 48 , 47 (2012) pp. 5892-5894
F9 Facile synthesis of anthra[2,3-b]chalcogenophenes	Kazuki Niimi Eigo Miyazaki Itaru Osaka Kazuo Takimiya	Synthesis, 44 , 13 (2012) pp. 2102-2106
F10 Organic photovoltaics based on 5-hexylthiophene-fused porphyrazines	Hiroki Mori Eigo Miyazaki Itaru Osaka Kazuo Takimiya	organic Electronics, 13 , 10 (2012) pp. 1975-1980
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F13 Orthogonally Functionalized Naphthodithiophenes: Selective Protection and Borylation	Shoji Shinamura Ryusuke Sugimoto Naoyuki Yanai Noriko Takemura Tomoya Kashiki Itaru Osaka Eigo Miyazaki Kazuo Takimiya	Organic Letters, 14 , 18 (2012) pp. 4718-4721
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G24 Photocatalytic decomposition of atmospheric toxic substances on the TiO ₂ -loaded glasses set on the roadside of a highway.	Noriatsu Ozaki Akihiro Nakazato Kazuki Nakashima Tomonori Kindaichi Akiyoshi Ohashi	Journal of Water and Environment Technology, 10 , 4 (2012) pp. 399-408
G25 Vertical distributions of PAHs in the sediments of four lakes in Japan.	Takehiko Fukushima Seigo Watanabe Kouichi Kamiya Noriatsu Ozaki	Journal of Soils and Sediments, 12 , 10 (2012) pp. 1530-1540
G26 Ecophysiological role and function of uncultured Chloroflexi in an anammox reactor.	Tomonori Kindaichi Shota Yuri Noriatsu Ozaki Akiyoshi Ohashi	Water Science & Technology, 66 , 12 (2012) pp. 2556-2561
G27 Treatment of low-strength wastewater in an anaerobic down-flow hanging sponge (AnDHS) reactor at low temperature.	Haruhiko Sumino Ryouichi Murota Ai Miyashita Hiroyuki Imachi Akiyoshi Ohashi Hideki Harada Kazuaki Syutsubo	Journal of Environmental Science and Health., Part A, 47 (2012) pp. 1803-1808

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G28 The effect of salinity on nitrite accumulation in a down-flow hanging sponge reactor.	Tepei Natori Yasuyuki Takemura Hideki Harada Kenichi Abe Akiyoshi Ohashi Masanori Kimura Takashi Yamaguchi Tutomu Okubo Shigeki Uemura	Journal of Chemical Technology and Biotechnology, 87 , 10 (2012) pp. 1466-1472
G29 Anaerobic treatment of municipal wastewater at ambient temperature: Analysis of archaeal community structure and recovery of dissolved methane.	Wasala Bandara Tomonori Kindaichi Hisashi Satoh Manabu Sasakawa Yoshihito Nakahara Masahiro Takahashi Satoshi Okabe	Water Research, 46 , 17 (2012) pp. 5756-5764
G30 PAHs concentration and toxicity in organic solvent extracts of atmospheric particulate matter and sea sediments.	Noriatsu Ozaki Shinya Takeuchi Keisuke Kojima Tomonori Kindaichi Toshiko Komatsu Takehiko Fukushima	Water Science & Technology, 66 , 5 (2012) pp. 983-992
G31 Influence of temperature and salinity on microbial structure of marine anammox bacteria Treatment.	Takanori Awata Katsuchihiro Tanabe Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Water Science and Technology, 66 , 5 (2012) pp. 958-964
G32 Rubber and methane recovery from deproteinized natural rubber wastewater by coagulation pre-treatment and anaerobic treatment.	Masashi Hatamoto Hiroyuki Nagai Kota Sato Masanobu Takahashi Shuji Kawakami Pairaya K. Choeisai Kazuaki Shutsubo Akiyoshi Ohashi Takashi Yamaguchi	International journal of environmental research, 6 , 3 (2012) pp. 577-584
G33 Development of anammox reactor equipped with a degassing membrane to improve biomass retention.	Kosuke Matsunaga Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi Yoshihito Nakahara Manabu Sasakawa	Water Science & Technology, 66 , 2 (2012) pp. 451-456
G34 Long term evaluation of the effect of salinity on organic removal and ammonium oxidation in a down-flow hanging sponge reactor.	Sigeki Uemura Masafumi Kimura Takashi Yamaguchi Akiyoshi Ohashi Yasuyuki Takemura Hideki Harada	International Journal of Environmental Research, 6 , 2 (2012) pp. 361-366
G35 Detection of single-copy functional genes in prokaryotic cells by two-pass TSA-FISH with polynucleotide probes.	Shuji Kawakami Takuya Hasegawa Hiroyuki Imachi Takashi Yamaguchi Hideki Harada Akiyoshi Ohashi Kengo Kubota	Journal of microbiological methods, 88 , 2 (2012) pp. 218-223
G36 Biodegradation potential of polycyclic aromatic hydrocarbons by activated sludge determined by micro autoradiography-fluorescence in situ hybridisation.	Tomonori Kindaichi Yasuto Tanabe Noriatsu Ozaki Akiyoshi Ohashi	The IWA World Water Congress & Exhibition 2012, (2012) pp. 72
G37 Recovery of concentrated phosphate from treated sewage by PAO-enriched biofilm reactor.	Hiroya Kodera Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	The IWA Nutrient Removal and Recovery 2012 (IWA NRR 2012), (2012) pp. 175-176

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G39 Enrichment of manganese oxidizing bacteria by Down-flow Hanging Sponge Reactor for rare metals removal and recovery.	Thi Thuy Linh Cao Daisuke Komizo Kenichi Abe Masashi Hatamoto Hiroyuki Imachi Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	International Conference on Civil and Environmental Engineering IC-CEE 2012, (2012) pp. 59-60
G40 Recovery and biological oxidation of dissolved methane in effluent of anaerobic wastewater treatment by closed DHS system.	Norihisa Matsuura Masashi Hatamoto Haruhiko Sumino Kazuaki Syutsubo Takashi Yamaguchi Akiyoshi Ohashi	International Conference on Civil and Environmental Engineering IC-CEE 2012, (2012) pp. 63-64
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G43 Analysis of geomorphic and hydraulic conditions causing railway embankment breach due to inundation flow	Tsubaki, Ryota Kawahara, Yoshihisa Sayama, Takahiro Fujita, Ichiro	Journal of Hydraulic and Hydroscience Engineering, JSCE, 30 , 1 (2012) pp. 87-99
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G47 2d numerical simulation of flushing floods with a refined model for vegetation	Kawahara, Yoshihisa Tsubaki, Ryota Yoshitake, Hiroki	Proc. 18th Congress of IAHR-APD, (2012) pp. 194-195
G48 Turbulent flows in a compound open channel with emergent vegetation	Kawahara, Yoshihisa Jahra, Fatima Hasegawa, Fumihiko	Proc. International Conference on Fluvial Hydraulics, River Flow 2012, 1 (2012) pp. 241-246
G49 Estimation of flood discharge in a vegetated river using multipoint water level hydrographs	Kawahara, Yoshihisa Tsubaki, Ryota Yoshitake, Hiroki	Proc. of 10th International Conference on Hydroscience and Engineering, ICHE-2012, (2012) pp. 353-354
G50 Effects of floodplain vegetation on flow resistance and large horizontal vortices	Jahra, Fatima Kawahara, Yoshihisa Hasegawa, Fumiaki Yamamoto, Takuya	Proc. of 10th International Conference on Hydroscience and Engineering, ICHE-2012, (2012) pp. 41201566-41201573
G51 Application of laser scanning system mounted on unmanned helicopter to monitor changes in river topography and vegetation	Kawahara, Yoshihisa Watanabe, Yutaka	Proc. International Symposium on Watercourse Sensing and Operational Monitoring, (2012)
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G54 Turbulence characteristics in the bottom layer of a shallow tidal channel	Mahdi Razaz Kiyosi Kawanisi	Journal of Turbulence, 13 , 52 (2012) pp. 1-12
G55 Tide-driven controls on maximum near-bed floc size in a partially-mixed estuary	Mahdi Razaz Kiyosi Kawanisi	Journal of Japan Society of Civil Engineers, Ser.B1 (Hydraulic Engineering), 56 (2012) pp. I.7-I.12
G56 Investigation of salinity variability in a small multi-channel estuary	Mohammad Soltaniasl Kiyosi Kawanisi Mahdi Razaz	Journal of Japan Society of Civil Engineers, Ser.B1 (Hydraulic Engineering), 56 (2012) pp. I.265-I.270
G57 Measuring streamflow and salinity in a tidal estuary with saltwater intrusions	Jyunki Yano Kiyosi Kawanisi Mahdi Razaz Mohammad Soltaniasl	Proc. of ICEC 2012, 4 , 1 (2012) pp. 217-222
G58 New acoustic system for continuous streamflow measurement in tidal estuaries with saltwater intrusion	Jyunki Yano Kiyosi Kawanisi Mahdi Razaz	Proc. of IAHR-APD 2012, (2012)
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G60 Salinity transport mechanisms in a small multi-channel estuary	Mohammad Soltaniasl Kiyosi Kawanisi Mahdi Razaz	Proc. of IAHR-APD 2012, (2012)
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G62 Measurements of influence of salinity and turbulent motion on floc characteristics in a tidal estuary	Mahdi Razaz Kiyosi Kawanisi	Proc. of IAHR-APD 2012, (2012)
G63 Investigation of streamflow fluctuations by fluvial acoustic tomography	Kiyosi Kawanisi Kazuhiko Ishikawa Mahdi Razaz Jyunki Yano	Proc. of ICEC 2012, 4 , 1 (2012) pp. 209-216
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G66 Continuous measurement of flushing discharge from reservoirs	Masao Ikeda Kiyosi Kawanisi Mahdi Razaz Kazuhiko Ishikawa Noriyuki Miyamoto	Proc. of ICEC 2012, 4 , 2 (2012) pp. 325-331
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G69 Decomposition characteristics of organic matter existing in deposited sediment under acid-base water conditions	Touch Narong Masataka Imagawa Tadashi Hibino	50th ECSA Conference, (2012)

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G74 Longitudinal Analysis on Inter-regional Business Trips and Office Network	Makoto TSUKAI Makoto OKUMURA	International Symposium on Speed-up, Safety and Service Technology for Railway and Maglev Systems (STECH, 2012), (2012) pp. USB
G75 Applicability of the Spatial Aggregation Model for Areal Interpolation	Toshiaki Tsuda Makoto Tsukai	11th International Conference on Civil and Environmental Engineering (ICCEE2012), 11 (2012) pp. CD-ROM
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H4 Trajectories and Local Flow Field Measurements around ONR Tumblehome in Maneuvering Motion	Y.Sanada K.Tanimoto K.Takagi M.Sano D.J.Yeo L.Gui Y.Toda F.Stern	Proceedings of the 29th Symposium on Naval Hydrodynamics, (2012) pp. 26-31
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H15 Reciprocal sound transmission measurement of the 5day temperature variation in the Kurushima Strait	Yudi Adityawarman A. Kaneko N. Taniguchi H. Mutsuda N. Gohda	Acounstical Science and Technology, 33 , 1 (2012) pp. 59-63
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H18 Unsteady Vehicle Aerodynamics during a Dynamic Steering Action: 2nd Report, Numerical Analysis	Makoto Tsubokura Yuki Ikawa Takuji Nakashima Yoshihiro Okada Takashi Kamioka Takahide Nouzawa	SAE Int. J. Passeng. Cars - Mech. Syst., 5 , 1 (2012) pp. 358-368
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H20 Effects of Transient Aerodynamics on Vehicle Stability: A Large Eddy Simulation Analysis	See Yuan Cheng Makoto Tsubokura Takuji Nakashima Yoshihiro Okada Takahide Nouzawa	Proceedings of 30th AIAA Applied Aerodynamics Conference, (2012)
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H25 Initial validation of COMS GOCI data in Tokyo Bay, Japan	Sakuno, Y. Nishi, N. Kobayashi, H. Higa, H. Koibuchi, Y. Toratani, M.	Proceedings of International Symposium on Remote Sensing 2012 (ISRS2012), (2012)

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H27 Development of estimation model for high concentrated Chl-a and SS using the correction term of estimated error in coastal area	Higa, H. Koibuchi, Y. Kobayashi, H. Sakuno, Y. Toratani, M.	Pan Ocean Remote Sensing Conference (PORSEC)-2012, (2012)
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I2 Evaluation of vibration control system with U-dampers based on quasi-linear motion mechanism	Hiroshi Tagawa Jinhe Gao	Journal of Constructional Steel Research, 70 (2012) pp. 213-225
I3 Multiobjective hybrid optimization-antioptimization for force design of tensegrity structures	Makoto Ohsaki Jingyao Zhang Isaac Elishakoff	J. Applied Mechanics, 79 , 2 (2012)
I4 Optimization of link member of eccentrically braced frames for maximum energy dissipation	Makoto Ohsaki Taku Nakajima	J. Constructional Steel Research, 75 , 1 (2012) pp. 38-44
I5 A random sampling approach to worst-case design of structures	Makoto Ohsaki Masahiko Katsura	Structural and Multidisciplinary Optimization, 46 , 1 (2012) pp. 27-39
I6 Self-equilibrium and stability of regular truncated tetrahedral tensegrity structures	Jingyao Zhang Makoto Ohsaki	J. Mechanics of Physics and Solids, 60 (2012) pp. 1757-1770
I7 Free-form design of tensegrity structures by dynamic relaxation method	Jingyao Zhang Makoto Ohsaki	Proc. IACM-IASS 2012, (2012) pp. 406-409
I8 Analytical conditions for self-equilibrium and super-stability of tensegrity structures with tetrahedral symmetry	Jingyao Zhang Makoto Ohsaki	Proc. IASS-APCS 2012, (2012)
I9 Bi-directional seismic vibration control of spatial structures using passive mass damper consisting of compliant mechanism	Seita Tsuda Makoto Ohsaki	Proc. IASS-APCS 2012, (2012)
I10 A heuristic algorithm for parameter identification of steel materials under asymmetric cyclic elastoplastic deformation	Makoto Ohsaki Jingyao Zhang Tomoshi Miyamura	Proc. 7th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM7), (2012)
I11 Optimization of an arch-type truss under seismic excitations considering uncertainties of geometrical and material parameters	Masahiko Katsura Makoto Ohsaki Hidekazu Watanabe	Proc. Int. Symp. Reliability Eng. Risk Management (IS-ERM'2012), (2012)
I12 High-precision FE-analysis for global and local elastoplastic responses of building frames	Makoto Ohsaki Masayuki Kohiyama Tomoshi Miyamura Takuzo Yamashita	Proc. Int. Symp. Reliability Eng. Risk Management (IS-ERM'2012), (2012)
I13 Evaluation of Building Damage and Tsunami Inundation based on Satellite Images and GIS Data Following the 2010 Chile Earthquake	Yoshihisa Maruyama Fumio Yamazaki Shizuko Matsuzaki Hiroyuki Miura Miguel Estrada	Earthquake Spectra, 28 , S1 (2012) pp. S165-S178
I14 Strong Motion Records of the 2011 Tohoku Earthquake and Its Attenuation Characteristics	Saburoh Midorikawa Hiroyuki Miura Tomohiro Atsumi	Journal of Disaster Research, 7 , 6 (2012) pp. 695-700
I15 Building Damage Detection of the 2010 Haiti Earthquake Based on Texture Analysis of High-Resolution Satellite Images	Hiroyuki Miura Saburoh Midorikawa Soh Hui-Chen	Proceedings of 15th World Conference on Earthquake Engineering, (2012)
I16 Preliminary Analysis for Building Damage Detection from High-Resolution SAR Images of the 2010 Haiti Earthquake	Hiroyuki Miura Saburoh Midorikawa	Joint Conference Proceedings of 9th International Conference on Urban Earthquake Engineering and 4th Asia Conference on Earthquake Engineering, (2012)

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I17 Preliminary Analysis for Characteristics of Strong Ground Motion from Gigantic Earthquakes	Saburoh Midorikawa Hiroyuki Miura Hongjun Si	Proceedings of 15th World Conference on Earthquake Engineering, (2012)
I18 Shape Optimization of Shear-type Hysteretic Steel Damper for Building Frames using FEM-Analysis and Heuristic Approach	Hidekazu Watanabe Makoto Ohsaki Junki Nozoe Satoshi Yasuda	Proc. 7th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM7), (2012)
I19 Behavior of Belled Pile Reinforced with High-Strength Steel Bars under Cyclic Flexure and Constant Axial Load	Yo Hibino Shota Suzuki Yasuji Shinohara Shizuo Hayashi	Proceedings of 9th International Conference on Urban Earthquake Engineering/ 4th Asia Conference on Earthquake Engineering, (2012) pp. 825-831
I20 Quick Report of 2011 Van Earthquake	Koichi Kusunoki Akira Tasai Yo Hibino Hidekazu Watanabe Muneyoshi Numada Mucip Tapan Alper Ilki	Proceedings of the International Symposium on Engineering Lessons Learned from the 2011 Great East Japan Earthquake, (2012) pp. 1950-1961
I21 Influence of axial load on behavior of belled pile reinforced with high-strength steel bars	Y. Hibino S. Suzuki Y. Shinohara S. Hayashi	Proceedings of the 15th World Conference on Earthquake Engineering, (2012)
I22 Climate Zoning for Making Urban Environmental Climate Map in Shanghai	Kaoru Matsuo Takahiro Tanaka Wenjun Ma Jihong Huang	Proceedings of the 8th International Conference on Urban Climates, (2012)
I23 A Study on Making Method of Climate Atlas in Osaka Region	Nanako Kitao Masakazu Moriyama Hideki Takebayashi Takahiro Tanaka	Proceedings of the 8th International Conference on Urban Climates, (2012)
I24 A Study on the Outdoor Temperature Distribution in High-dense and Low-rise Urban Area in Summer: For Improving Thermal Environment in Summer	Kentaro Hayashi Takahiro Tanaka Shusuke Inachi	Proceedings of the 9th International Symposium on Architectural Interchanges in Asia, (2012)
I25 A Study on the Spatial Distribution Patterns of Living Environment Evaluations by Inhabitants in Hillside Urban Area	Iyo Yonemasu Takahiro Tanaka Daisaku Nishina	Proceedings of the 9th International Symposium on Architectural Interchanges in Asia, (2012)
I26 Analysis on Summer Temperature Distribution in the Basin City - For Making an Urban Environmental Climate Map of Hadano City, Kanagawa-	Shohei Noguchi Takahiro Tanaka Satoru Sadohara	Proceedings of the 9th International Symposium on Architectural Interchanges in Asia, (2012)
I27 A Study on the Preferable Urban Structure of Provincial Small Town in the Depopulation Tendency	Takahiro Tanaka Shimpei Iwamoto Daisaku Nishina	Proceedings of the 9th International Symposium on Architectural Interchanges in Asia, (2012)
I28 Urban Environmental Climate Maps of Shanghai	Kaoru Matsuo Takahiro Tanaka Wenjun Ma Jihong Huang	Proceedings of the 6th Japanese-German Meeting on Urban Climatology, (2012)
I29 26. Study on energy saving effect based on the suitable ventilation rate in the all electric center of providing school lunch	Shintaro Hanazono Saburo Murakawa Daisaku Nishina Masanobu Aono Kazutoshi Ugusa Yoshiyuki Nagura Kengo Horioka	Proceedings of the 5th International Building Physics Conference, (2012) pp. 183-183
I30 29. The Change over the Years on the Psychological Evaluation for River-landscape	Daisaku Nishina Hanae Shoji Saburo Murakawa Takahiro Tanaka	Proceedings of the 10th International Symposium on Environment-Behavior Studies, (2012)
I31 A study on architecture and technology of tea firing places of foreign settlement in 19c. Japan	Susumu Mizuta	Proceedings of 9th international symposium on architectural interchanges in Asia, (2012)

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I32 A study on the Amami Oshima sugar mill: its restoration and social background of establishment	Susumu Mizuta	Proceedings of XVth congress of the international committee of conservation of industrial heritages, (2012)
I33 A study on Jardine, Matheson & Co's branch buildings in the Far East: 1842-1929	Susumu Mizuta	Proceedings of East Asian architectural culture international conference, (2012)
I34 Realization of the "Roof Garden" in Ahmedabad by Le Corbusier - On the Creation of Villa Sarabhai -	Shoichiro Sendai	Journal of Asian Architecture and Building Engineering, 11 , 1 (2012) pp. 17-23
I35 Le Corbusier's KANSEI of 'Roof Garden' - The Influence of the Journey on the Architectural Concept by the Modern Architect-	Shoichiro Sendai Michiya Tsukano	Proceedings of the International Conference on Kansei Engineering and Emotion Research, (2012) pp. 848-855
I36 Estimation and Proposition Concerning Urban Environment by Means of the Use of the Five Senses' Icons by Elementary School Children	Kenji Ichikawa Shoichiro Sendai	Proceedings of the International Conference on Kansei Engineering and Emotion Research, (2012) pp. 132-138
I37 Importation of Le Corbusier's 'Roof Garden' to Japanese Modern Architecture	Shoichiro Sendai Michiya Tsukano	The 9th International Symposium on Architectural Interchanges in Asia, (2012) pp. B-1-3
I38 La ville Hiroshima, une histoire des monuments: Aller admirer les fleurs de cerisiers et développer la ville	Shoichiro Sendai	Colloque international sur : La Seconde Guerre mondiale : violences et résistances, oublis et résurgence des lieux de mémoire en France et en Europe, (2012)

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J1 IR-UWB-CMOS Circuits for Breast Cancer Detection	T. Kikkawa A. Toya S. Kubota M. Hafiz A. Azhari N. Sasaki	Proceedings of 6th European Conference on Antennas and Propagation, (2012) pp. 1758-1760
J2 Pulsed-Field Wireless Interconnects in Digital Integrated Circuits - A Time-Domain Signal Transfer and Electromagnetic Emission Analysis	I. E. Lager A. T. De Hoop T. Kikkawa	Proceedings of 6th European Conference on Antennas and Propagation, (2012) pp. 1855-1859
J3 Compact Planar UWB Antenna Array for Breast Cancer Detection	T. Sugitani S. Kubota A. Toya T. Kikkawa	Proc. of 2012 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting, (2012) pp. 1-2
J4 A Ring-VCO-Based Sub-Sampling PLL CMOS Circuit with -119.1 dBc/Hz Phase Noise and 0.73 ps Jitter	K. Sogo A. Toya T. Kikkawa	the 38th European Solid-State Circuits Conference, (2012) pp. 253-256
J5 -119.1 dBc/Hz Phase Noise Ring-VCO-Based PLL CMOS Circuit Using A Tunable Narrow-Deadzone Creator in Frequency Locked Loop	K. Sogo A. Toya T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012), (2012) pp. 1154-1155
J6 102.4 GS/s Impulse Sampling Circuit with Low Power and Low Timing Error Clock Generation	A. Toya K. Sogo N. Sasaki T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012), (2012) pp. 1142-1143
J7 Influence of Breast Organisms and UWB Antenna Array Configuration on the Resolution of Breast Cancer Detection	T. Sugitani S. Kubota A. Toya X. Xiao T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012), (2012) pp. 360-361
J8 Layered Low-k Porous Silica Zeolite Films for Inter-Metal Dielectric with High Elastic Modulus	T. Yamamoto T. Sato Y. Seino K. Hattori S. Kuroki T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012), (2012) pp. 58-59
J9 Gaussian Monocycle Pulse CMOS Transmitter with On-Chip Integrated Antenna and High-k Dielectric Slab Waveguide(invited)	T. Kikkawa	2012 IEEE 11th International Conference on Solid-State and Integrated Circuit Technology, (2012) pp. S15_01
J10 Silicon Ring Optical Modulator with p/n Junctions Arranged along Waveguide for Low-Voltage Operation	Y. Amemiya R. Furutani M. Fukuyama S. Yokoyama	Jpn. J. App. Phys., 51 , 4 (2012) pp. 04DG07-1-04DG07-5
J11 Slot Ring Biosensors using Silicon Nitride Waveguides with Small Temperature Coefficient	A. Hirowatari T. Taniguchi T. Ikeda M. Fukuyama Y. Amemiya A. Kuroda S. Yokoyama	Proceedings of SPIE, Silicon Photonics and Photonic Integrated Circuits III, (2012) pp. 84311S-1-84311S-8
J12 Slow-Voltage High-Speed Si Mach-Zehnder Optical Modulator with Multi-Cascade p/n Junctions along Waveguides	R. Furutani Y. Amemiya S. Yokoyama	Proceedings of SPIE, Silicon Photonics and Photonic Integrated Circuits III, (2012) pp. 84310W-1-84310W-6

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J13 Proposal of Silicon Optical Modulator Based on Surface Plasmon Resonance	T. Tabei S. Yokoyama	Proceedings of SPIE, Silicon Photonics and Photonic Integrated Circuits III, (2012) pp. 84311K-1-84311K-6
J14 Differential Si Ring Optical Resonator Biosensors	T. Taniguchi Y. Amemiya T. Ikeda A. Kuroda S. Yokoyama	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012), (2012) pp. 1097-1098
J15 High Sensitive Biosensors with Slot and Stack-Type Structure using Silicon Nitride Waveguides	Y. Amemiya A. Hirowatari T. Taniguchi T. Ikeda M. Fukuyama A. Kuroda S. Yokoyama	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012), (2012) pp. 362-363
J16 Biomolecule detection based on Si single-electron transistors for highly sensitive integrated sensors on a single chip	T. Kudo A. Nakajima	Appl. Phys. Lett., 100 , 2 (2012) pp. 023704-1-023704-3
J17 In-Plane Grain Orientation Alignment of Polycrystalline Silicon Films by Normal and Oblique-Angle Ion Implantations	A. Nakajima S. Kuroki S. Fujii T. Ito	Jpn. J. Appl. Phys., 51 , 4 (2012) pp. 04DH03-1-04DH03-4
J18 Charge redistribution in a charge storage layer containing C60 molecules and organic polymers for long electron retention	A. Nakajima M. Uchino	Appl. Phys. Lett., 5 , 11 (2012) pp. 213301-1-213301-4
J19 Experimental Analysis of Within-Die Process Variation in 65 nm and 180 nm CMOS Technology Including its Distance Dependences	T. Ansari W. Imafuku M. Yasuda H. J. Mattausch T. Koide	Jpn. J. Appl. Phys., 51 , 4 (2012) pp. 04DE03-1-04DE03-8
J20 High Speed Frequency-Mapping-Based Associative Memory using Compact Multi-Bit Encoders and a Path-Selecting Scheme	S. Sasaki M. Yasuda A. Kawabata T. Koide H. J. Mattausch	Jpn. J. Appl. Phys., 51 , 4 (2012) pp. 04DE05-1-04DE05-7
J21 Associative Memory for Nearest-Hamming Distance Search Based on Frequency Mapping	H. J. Mattausch W. Imafuku A. Kawabata T. Ansari M. Yasuda T. Koide	IEEE Journal of Solid-State Circuits, 47 , 6 (2012) pp. 1448-1459
J22 A K-means-based Multi-prototype High-speed Learning System with FPGA-implemented Coprocessor for 1-NN Searching	F. An T. Koide H. J. Mattausch	IEICE Trans. on Information & Systems, E95-D , 9 (2012) pp. 2327-2338
J23 Application of Composite Haar-like Features to Vehicle Detection with Massive-Parallel Memory-Embedded SIMD Matrix Processor	M. Otori H. Hiramoto T. Koide H. J. Mattausch	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012), (2012) pp. 1138-1139
J24 Quantitative identification of mucosal gastric cancer under magnifying endoscopy with flexible spectral imaging color enhancement(in press)	R. Miyaki S. Yoshida S. Tanaka Y. Kominami Y. Sanomura T. Matsuo S. Oka B. Raytchev T. Tamaki T. Koide K. Kaneda M. Yoshihara K. Chayama	J. Gastroenterol. Hepatol., (2012)

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J25 COMPUTER AIDED DIAGNOSIS SYSTEM FOR PREDICTING MUCOSAL GASTRIC CANCER UNDER MAGNIFYING ENDOSCOPY WITH FLEXIBLE SPECTRAL IMAGING COLOR ENHANCEMENT	S. Yoshida R. Miyaki S. Tanaka Y. Kominami T. Matsuo Y. Sanomura S. Oka T. Tamaki B. Raytchev K. Kaneda T. Koide M. Yoshihara K. Chayama	UEG Week Amsterdam 2012 (UEGWEEK2012), (2012) pp. 1220
J26 Manipulation of Dispersed Magnetic Beads for On-chip Immunoassay	T. Ishikawa J.-S. Lee R. Miyake	Jpn. J. Appl. Phys., 51 , 4 (2012) pp. 04DE01-1-04DE01-4
J27 Rapid airborne virus detection using mist-labeling based on micro reaction process	K. Takenaka T. Shigenori R. Miyake	Proc. of 14th Miniaturized System for Chemistry and Life Sciences (micro TAS 2012), (2012)
J28 High-speed data acquisition system for micro-fluidic HILS	Y. Maekawa R. Miyake	Proc. of ISMM 2012, (2012)
J29 Micro-isolation column of basophilic leukocyte for allergic diagnosis	K. Sakamoto Y. Yanase M. Hide R. Miyake	Proc. of ISMM 2012, (2012)
J30 FIN PLATE STRUCTURES AT THE BOTTOM OF PDMS MICROCHANNEL TO ENHANCE PRESSURE DURABILITY WITHOUT SURFACE TREATMENT	K. Aritome Y. Takahata R. Miyake Y. Murakami	Proc. of ISMM 2012, (2012)
J31 Application of SPR imaging for detection of individual living cell activation	Y. Yanase T. Kawaguchi K. Ishii K. Sakamoto R. Miyake M. Hide	Proc. of ISMM 2012, (2012)
J32 Micromachined Evaporative Concentrator for Water Quality Monitoring Systems	W. P. Bula Y. Murakami H. J. G. E. Gardeniers R. Miyake	Proc. of ISMM 2012, (2012)
J33 Integration and installation of micro-fluidic devices on bio-medical equipment(invited)	R. Miyake	Proc. of Pittcon 2012, (2012)
J34 PUMPS, NO-VALVES, NC-VALVES ON PAPER ANALYSIS CHIP	S. Okabe K. Sakamoto Y. Murakami T. Ishikawa R. Miyake	Proc. of MEMS 2012, (2012) pp. 1101-1104
J35 Electro-optic polymer/TiO ₂ multi-layer slot waveguide modulators	Y. Enami B. Yuan M. Tanaka J. Luo A. K-Y. Jen	Appl. Phys. Lett., 101 , 12 (2012) pp. 123509-1-123509-4
J36 Tri-Gate Polycrystalline Silicon Thin Film Transistors Fabricated by Continuous-Wave Laser Lateral Crystallization for Improvement of Electron Transport Properties	S. Fujii S. Kuroki Y. Kawasaki K. Kotani	Jpn. J. Appl. Phys., 51 , 2 (2012) pp. 02BJ03-1-02BJ03-6
J37 Cu Single Damascene Integration of an Organic Nonporous Ultralow-k Fluorocarbon Dielectric Deposited by Microwave-Excited Plasma-Enhanced CVD	X. Gu T. Nemoto Y. Tomita A. Teramoto R. Kuroda S. Kuroki K. Kawase S. Sugawa T. Ohmi	IEEE Trans. Electron Devices, 59 , 5 (2012) pp. 1445-1453

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J38 Integration Process Development for Improved Compatibility with Organic Non-Porous Ultralow-k Dielectric Fluorocarbon on Advanced Cu Interconnects	X. Gu Y. Tomita T. Nemoto K. Miyatani A. Saito Y. Kobayashi A. Teramoto R. Kuroda S. Kuroki K. Kawase T. Nozawa T. Matsuoka S. Sugawa T. Ohmi	Jpn. J. Appl. Phys., 51 , 5 (2012) pp. 05EC03-1-05EC03-6
J39 A novel chemically, thermally and electrically robust Cu interconnect structure with an organic non-porous ultralow-k dielectric fluorocarbon (k=2.2)	X. Gu A. Teramoto R. Kuroda Y. Tomita T. Nemoto S. Kuroki S. Sugawa T. Ohmi	Proceeding of 2012 IEEE Symposium on VLSI Technology, (2012) pp. 119-120

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IAENG Transactions on Engineering Technologies: Special Edition of the International MultiConference of Engineers and Computer Scientists 2012	Sio-long Ao Alan Hoi-Shou Chan Hideki Katagiri Li Xu	World Scientific	2012
Intelligent Decision Technologies: Smart Innovation, Systems and Technologies	Takeshi Uno Hideki Katagiri Kosuke Kato	Springer	2012
Intelligent Decision Technologies: Smart Innovation, Systems and Technologies	Takashi Hasuike Hideki Katagiri	Springer	2012
PID Control in the Third Millennium	T. Yamamoto	Springer	2012
A Coded Structured Light Projection Method for High-Frame-Rate 3D Image Acquisition, Advanced Image Acquisition, Processing Techniques and Applications, pp1-16	Idaku Ishii	INTECH	2012
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Acceleration Visualization Marker Using Morie Fringe for Remote Sensing, Remote Sensing of Planet Earth (Y. Chemin ed.)	Takeshi Takaki	INTECH	2012
"Locomotion Transition Scheme of Multi-Locomotion Robot", Injury and Skeletal Biomechanics, pp. 21-36	Tadayoshi Aoyama Taisuke Kobayashi Zhigo Lu Kosuke Sekiyama Yasuhisa Hasegawa Toshio Fukuda	INTECH	2012
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Handbook of Natural Computing (eds. G. Rozenberg, Th. Bäck, J.N. Kok)	Kenichi Morita	Springer-Verlag	2012
Proceedings of 9th International Conference on Ubiquitous Intelligence and Computing and 9th International Conference on Autonomous and Trusted Computing (UIC/ATC 2012)	B. O. Apduhan C.-H. Hsu T. Dohi K. Ishida L. T. Yang J. Ma	IEEE CPS	2012
Advanced Reliability and Maintenance Modeling V - Basis of Reliability Analyses	H. Yamamoto C. Qian L. Cui T. Dohi	McGraw Hill	2012
Proceedings of IEEE 18th Pacific Rim International Symposium on Dependable Computing (PRDC 2012)	K. Iwasaki T. Yoneda T. Dohi	IEEE CPS	2012
Nanoparticle synthesis, dispersion, and functionalization for industrial application, pp608-612, Application	M.M.Munir T. Ogi K. Okuyama	Elsevier	2012
Normalized Knudsen-based permeance of zeolite and silica membranes for evaluation of micro-pore sizes	H. R. Lee G. Li M. Kanezashi T. Yoshioka T. Tsuru	Nova Publishers	2012

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5.14 Reduction: Hydroformylation C-H and C-C” in Comprehensive Chirality, Volume 5: Synthetic Methods IV - Asymmetric Oxidation Reduction, C-N	Ryo Tanaka Kyoko Nozaki	Elsevier	2012
EPR of Free Radicals in Solids I	M. Shiotani K. Komaguchi	Springer	2012
Satoyama-Satoumi Ecosystems and Human Well-Being: Socio-Ecological Production Landscapes of Japan	Anantha Kumar Duraiappah Koji Nakamura Kazuhiko Takeuchi Masataka Watanabe Maiko Nishi Satoru Sadohara Takahiro Tanaka et al.	United Nations University Press	2012
Advanced interconnects for ULSI technology	T. Kikkawa	John Wiley & Sons, Ltd, United Kingdom	2012

Registered Patents

Patent Name (Registered Number)	Inventor Name	Registered Date
Program for Outputting Stress-Strain Equation and its Device (US8321185)	Kazuhisa Meda Shigenobu Okazawa Koji Nishiguchi	2012.11.27